

Table A-7. **Company and other non-Federal funds for industrial R&D performance in the U.S., by industry and size of company: 1997–2000**

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Industry and size of company	NAICS codes	1997	1998	1999 ¹	2000
		[In millions of dollars]			
Distribution by industry:					
All industries ²	21–23, 31–33, 42, 44–81	133,611	145,016	160,176	180,421
Manufacturing	31–33	--	--	99,865	110,750
Food.....	311	1,244	1,305	1,132	1,145
Beverage and tobacco products.....	312	447	384	(D)	417
Textiles, apparel, and leather.....	313–16	378	399	334	266
Wood products.....	321	26	55	70	105
Paper, printing and support activities.....	322, 323	2,252	1,660	2,474	2,700
Petroleum and coal products.....	324	1,349	1,390	(D)	1,172
Chemicals.....	325	16,385	18,733	20,051	20,768
Basic chemicals.....	3251	1,840	3,467	2,648	2,050
Resin, synthetic rubber, fibers, and filament.....	3252	1,802	1,995	2,216	2,842
Pharmaceuticals and medicines.....	3254	10,213	9,601	12,236	12,793
Other chemicals.....	325 (minus 3251–52, 3254)	2,530	3,670	2,951	3,084
Plastics and rubber products.....	326	1,480	1,625	1,785	1,675
Nonmetallic mineral products.....	327	546	(D)	595	845
Primary metals.....	331	754	588	457	598
Fabricated metal products.....	332	1,854	1,727	1,608	1,631
Machinery.....	333	5,470	5,831	5,658	6,539
Computer and electronic products.....	334	29,697	31,873	29,939	39,553
Computers and peripheral equipment.....	3341	7,718	8,276	4,126	5,162
Communications equipment.....	3342	2,751	8,456	5,797	11,183
Semiconductor and other electronic components...	3344	14,033	9,072	10,624	12,787
Navigational, measuring, electromedical, and control instruments.....	3345	4,659	5,483	8,632	10,114
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	537	585	760	307
Electrical equipment, appliances, and components...	335	2,580	2,139	3,820	3,390
Transportation equipment.....	336	21,713	20,677	23,928	22,917
Motor vehicles, trailers, and parts.....	3361–63	14,340	13,781	17,987	18,306
Aerospace products and parts.....	3364	6,961	6,521	5,309	3,895
Other transportation equipment.....	336 (minus 3361–64)	412	375	632	716
Furniture and related products.....	337	240	211	248	284
Miscellaneous manufacturing.....	339	3,447	3,888	3,825	4,195
Medical equipment and supplies.....	3391	3,031	3,363	3,251	3,741
Other miscellaneous manufacturing.....	339 (minus 3391)	416	525	574	453
Other manufacturing ³	31–33 minus (311–16, 321–27, 331–37, 339)	(S) 23	(D)	--	--
Small manufacturing companies ⁴	Fewer than 50 employees	2,357	2,188	2,950	2,549

See explanatory information and SOURCE at end of table.

Table A-7. Company and other non-Federal funds for industrial R&D performance in the U.S., by industry and size of company:
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Industry and size of company	NAICS codes	1997	1998	1999 ¹	2000
		[In millions of dollars]			
Distribution by industry:					
Nonmanufacturing	21–23, 42, 44–81	--	--	60,311	69,671
Mining, extraction, and support activities.....	21	447	458	2,352	822
Utilities.....	22	209	177	126	136
Construction.....	23	241	445	690	222
Trade.....	42, 44, 45	15,862	16,415	19,521	24,929
Transportation and warehousing.....	48, 49	662	253	460	277
Information.....	51	10,191	13,025	14,892	16,290
Publishing.....	511	7,535	9,522	11,253	12,926
Newspaper, periodical, book, and database.....	5111	340	334	371	365
Software.....	5112	7,194	9,188	10,882	12,561
Broadcasting and telecommunications.....	513	2,139	1,788	1,393	1,025
Radio and television broadcasting.....	5131	(D)	(D)	(D)	(D)
Telecommunications.....	5133	(D)	1,710	(D)	(D)
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	12	(D)	18	59
Other information.....	51 (minus 511, 513)	518	1,716	2,246	2,339
Finance, insurance, and real estate.....	52, 53	1,326	1,700	1,570	4,024
Professional, scientific, and technical services.....	54	9,380	11,440	14,379	17,949
Architectural, engineering, and related services.....	5413	1,152	1,405	2,402	2,232
Computer systems design and related services.....	5415	2,995	2,861	3,989	4,943
Scientific R&D services.....	5417	4,688	6,446	7,413	9,715
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	(S) 544	728	575	1,059
Management of companies and enterprises.....	55	309	417	72	49
Health care services.....	621–23	635	584	631	477
Other nonmanufacturing ³	56, 61, 624, 71, 72, 81	911	2,095	640	713
Small nonmanufacturing companies ⁴	Fewer than 15 employees	1,569	2,327	4,977	3,783

See explanatory information and SOURCE at end of table.

Table A-7. **Company and other non-Federal funds for industrial R&D performance in the U.S., by industry and size of company: 1997–2000**

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Industry and size of company	NAICS codes	1997	1998	1999 ¹	2000
		[In millions of dollars]			
Distribution by size of company: [Number of employees]					
Total.....	(na)	133,611	145,016	160,176	180,421
5 to 24.....	(na)	2,836	4,305	6,393	5,940
25 to 49.....	(na)	2,745	2,857	4,382	4,786
50 to 99.....	(na)	3,819	5,834	6,623	6,745
100 to 249.....	(na)	6,606	7,494	6,540	8,351
250 to 499.....	(na)	5,848	6,249	7,407	6,819
500 to 999.....	(na)	4,590	5,132	6,441	8,580
1,000 to 4,999.....	(na)	19,049	20,905	23,944	29,860
5,000 to 9,999.....	(na)	13,655	13,517	14,182	15,143
10,000 to 24,999.....	(na)	20,597	23,921	24,525	27,976
25,000 or more.....	(na)	53,866	54,802	59,740	66,221

¹ Statistics for 1999 have been revised since originally published.

² The totals for "all industries" prior to 1999 are identical to corresponding totals previously published using the Standard Industrial Classification (SIC) system. Also, pre-1999 detail published using the North American Industry Classification System (NAICS) may not add to the totals. See the 'NOTES' below.

³ Manufacturing companies in the 1997 and 1998 samples that could not be classified with a NAICS code are included in "other manufacturing;" nonmanufacturing companies that could not be classified with a NAICS code are included in "other nonmanufacturing."

⁴ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.

(S) = Indicates imputation of more than 50 percent.

(--) = Indicates data not collected.

(na) = Not applicable.

NOTES: Starting with the 1999 survey, estimates are based on the North American Industry Classification System (NAICS). In prior years, estimates were based on the Standard Industrial Classification (SIC) system. For this table, companies in the 1997 and 1998 surveys were assigned NAICS industry codes based on their SIC industry codes. Consequently, the estimates for 1997 and 1998 in this table are not necessarily representative of the NAICS categories of industries in those years. They are included for comparison purposes only.

The R&D in this table is the industrial R&D performed within company facilities funded from all sources except the Federal Government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments. Excluded from this table are company-funded R&D not performed within the company (e.g., R&D contracted out to other organizations) and company-funded R&D not performed in the U.S. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000